

## CONVERTIBLE FURNITURE

### FIELD OF THE INVENTION

**[0001]** The present invention relates to convertible furniture and, more particularly, to convertible furniture having a plurality of configurations.

### BACKGROUND OF THE INVENTION

**[0002]** Interior decorating and furnishing markets are ever expanding. However, recently there is a growing focus on furniture capable of adapting to various decorating and/or design choices. Preferably, these furniture pieces would be capable of being configured in a wide variety of arrangement, thereby providing added utility in its ability to be used in multiple environments. For example, when new space is acquired, such as a new home, apartment, or office, or when old space is simply redecorated, consumers are often required to purchase new furniture to fit within the new space or decorating scheme. Obviously, this can become expensive to the consumer. Alternatively, if one chooses to use existing furniture pieces, those pieces may not fully compliment the intended design scheme.

**[0003]** Accordingly, there exists a need in the relevant art to provide a furniture pieces that are capable of being quickly and easily configured into multiple design configurations without requiring the purchasing of entire additional furniture pieces. Furthermore, there exists a need in the relevant art to provide a convertible furniture piece that provides the additional utility sought by

consumers to enhance design creativity. Still further, there exists a need in the relevant art to provide a convertible furniture piece that is capable of overcoming the disadvantages of the prior art.

## SUMMARY OF THE INVENTION

**[0004]** The present invention provides a convertible furniture piece having an advantageous construction that finds utility in a wide variety of applications. The convertible furniture piece generally including a base, a first locking mechanism, a first cushion member, and a first support bracket. The first locking mechanism is attached to the base. The first cushion member has a first surface and a second surface generally perpendicular to each other. The first surface is supported on the base. The first support bracket is removably attached to the base by the first locking mechanism. The first support bracket engages the second surface of the first cushion member to provide lateral support thereto.

**[0005]** Another aspect of the present invention provides a method of assembling a convertible furniture piece. The method initially includes a first support bracket being positioned into engagement with a first locking mechanism. The first locking mechanism is attached to a base. The first locking mechanism is then manipulated to removably attach the first support bracket to the base. Finally, a second cushion member having a first surface and a second surface is positioned on the base such that the base engagingly supports the first

surface and the first support bracket engages the second surface to provide lateral support thereto.

[0006] Further areas of applicability of the present invention will become apparent from the detailed description provided hereinafter. It should be understood that the detailed description and specific examples, while indicating the preferred embodiment of the invention, are intended for purposes of illustration only and are not intended to limit the scope of the invention.

#### BRIEF DESCRIPTION OF THE DRAWINGS

[0007] The present invention will become more fully understood from the detailed description and the accompanying drawings, wherein:

[0008] FIG. 1 is a perspective view of a convertible furniture piece in accordance with the present invention having an exemplary configuration;

[0009] FIG. 2 is an exploded perspective view of the convertible furniture piece of FIG. 1;

[0010] FIG. 3A is a bottom detail view of the interface between a quick-release locking mechanism and a support bracket of the convertible furniture piece of FIG. 1;

[0011] FIG. 3B is a side detail view of the interface between the quick-release locking mechanism and the support bracket of the convertible furniture piece of FIG. 1;

[0012] FIG. 4A is a perspective view of the convertible furniture piece of FIG. 1 in a first alternative configuration;

[0013] FIG. 4B is a perspective view of the convertible furniture piece of FIG. 1 in a second alternative configuration;

[0014] FIG. 4C is a perspective view of the convertible furniture piece of FIG. 1 in a third alternative configuration;

[0015] FIG. 4D is a perspective view of the convertible furniture piece of FIG. 1 in a fourth alternative configuration;

[0016] FIG. 4E is a perspective view of the convertible furniture piece of FIG. 1 in a fifth alternative configuration;

[0017] FIG. 5 is a perspective view of a first alternative embodiment of a convertible furniture piece in accordance with the present invention having an exemplary configuration; and

[0018] FIG. 6 is a perspective view of a second alternative embodiment of a convertible furniture piece in accordance with the present invention having an exemplary configuration.

#### DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

[0019] The following description of the preferred embodiments is merely exemplary in nature and is in no way intended to limit the scope of the invention, its application, or its uses. For example, the principles of the present invention may find utility in a wide variety of furniture pieces, such as sofas, loveseats, chairs, sectionals, and the like. Accordingly, the present application should not be regarded as being limited to the exact configuration illustrated or described herein.

**[0020]** With reference to FIGS. 1 and 2, a convertible furniture piece 10 is illustrated in accordance with the present invention. The convertible furniture piece 10 generally includes a base 12, a plurality of seat cushions 14a, 14b, a pair of side support brackets 16a, 16b, a pair of back support brackets 18a, 18b, a pair of first upright cushions 20a, 20b, a pair of second upright cushions 22a, 22b, and a plurality of quick-release locking mechanisms 34 (shown in FIGS. 2 and 3). The base 12 includes a rectangular platform portion 24 supported on a plurality of feet 26. The plurality of feet 26 are preferably attached to an underside 25 of the platform portion 24 at its corners and at its mid-region. In the embodiment illustrated, the plurality of feet 26 includes six feet.

**[0021]** The seat cushions 14 are supported on the platform portion 24 of the base 12. In an exemplary embodiment, the seat cushions 14 are furnishing cushions including rectangular shaped foam members encased in a material, such as a fabric.

**[0022]** As best seen in FIG. 2, the support brackets 16, 18 each include a header 17 fixedly coupled between two legs 19a, 19b. In the embodiment illustrated, the support brackets 16, 18 are constructed of tubular metal having a generally square cross-section. It should be appreciated that the side support brackets 16 are preferably constructed identical to the back support brackets 18. This promotes manufacturing and assembly efficiency, as well as interchangeability of the brackets 16, 18. Furthermore, the support brackets 16, 18 each include a flange portion 30 disposed on the legs 19 at an end opposite

the header 17 (see FIGS. 3A and 3B). The flange portions 30 extend generally perpendicular from the legs 19 and include a slot 32.

**[0023]** The first upright cushion 20 and the second upright cushion 22 generally include rectangular foam cores encased in a material, such as fabric. In the present embodiment, the first upright cushions 20 are of generally smaller dimensions than the second upright cushions 22. The first upright cushions 20 have a bottom surface engaging the seat cushions 14 and a side surface engaging the side support brackets 16. Likewise, the second upright cushions 22 have a bottom surface engaging the seat cushions 14 and a side surface engaging the back support brackets 18. The side 16 and back 18 support brackets are adapted to solely provide lateral support to the first upright cushions 20 and the second upright cushions 22.

**[0024]** With reference to FIGS. 3A and 3B, the quick-release locking mechanisms 34 generally include a handle portion 36 and a threaded shaft portion 38. The threaded shaft portions 38 threadably engage one of a plurality of bores 40 formed in the underside 25 of the platform portion 24 of the base 12. The slots 32 in the flange portions 30 of the support brackets 16, 18 receive the shaft portions 38. The handle portions 36 compressively engage the flange portions 30, thereby securing the support brackets 16, 18 to the base 12.

**[0025]** To remove the support brackets 16, 18, the handle portions 36 are turned to partially retract the shafts 38 from the bores 40. This releases the compressive force previously applied to the flanges 30 and disengages the support brackets 16, 18 from the base. Thereafter, the flange portions 30 may

be slid out from under the handle portions 36, thereby removing the support brackets 16, 18 from the base 12. This arrangement provides for a quick-release type application. No tools are required to remove the support brackets 16, 18 from the base 12. Furthermore, the handle portions 36 can be easily manipulated to attach or remove the support brackets 16, 18 without needing to capsize the base 12.

**[0026]** It should be understood that the present embodiment may be varied such that the underside 25 of the base 12 includes a plurality of threaded shafts and the quick-release locking mechanisms 34 include a handle portion 26 having a threaded nut. This alternative construction operates in generally the same manner and provides the same benefits as the construction described above.

**[0027]** Referring now to FIGS. 4A-4E, the convertible furniture piece 10 of the present invention is convertible between a plurality of configurations. FIG. 4A illustrates a convertible furniture piece 10, wherein the side support brackets 16 and the first upright cushions 20 have been removed from the base 12. Therefore, a loveseat-type furniture piece having only back rests remains. FIG. 4B illustrates a convertible furniture piece 10, wherein the back support brackets 18 and the second upright cushions 22 have been removed from the base 12. Therefore, a loveseat-type furniture piece having only arm rests remains. FIG. 4C illustrates a convertible furniture piece 10, wherein one of the side support brackets, specifically 16a, and one of the back support brackets, specifically 18a, have been removed from the base 12. In addition, the corresponding first upright

cushion 20a and the second upright cushion 22a have been removed from the base 12. Therefore, a loveseat-type furniture piece resembling a chaise lounge remains. FIG. 4D illustrates a convertible furniture piece 10, wherein the side support brackets 16 and the back support brackets 18 have been removed from the base 12. In addition, the first upright cushions 20 and second upright cushions 22 have been removed from the base 12. Therefore, a loveseat-type furniture piece resembling a two-cushion seating platform remains. FIG. 4E illustrates a convertible furniture piece 10, wherein the side support brackets 16 have been removed from the base 12. In addition, the second upright cushions 22 have been removed from the base 12 and replaced by the first upright cushions 20. This provides a loveseat-type furniture piece 10 similar to that illustrated in FIG. 4A, wherein the backrest extends across the entire width of the loveseat. Furthermore, the back rest is lower than that illustrated in FIG. 4A.

**[0028]** With reference to FIG. 5, a first alternative embodiment of a convertible furniture piece 100 is illustrated in accordance with the present invention. The convertible furniture piece 100 is generally the same as that described above, except that it includes a larger platform portion 24, three back support brackets 18a, 18b, 18c (not shown), three second upright cushions 22a, 22b, 22c, and three seat cushions 14a, 14b, 14c. This defines a convertible furniture piece 100 resembling a sofa. The sofa-type convertible furniture piece 100 is convertible into a plurality of configurations, similar to those described above.

**[0029]** With reference to FIG. 6, a second alternative embodiment of a convertible furniture piece 200 is illustrated in accordance with the present invention. The convertible furniture piece 100 is generally the same as those described above, except that it includes a smaller platform portion 24, one back support bracket 18 (not shown), one second upright cushion 22, and one seat cushion 14. In addition, the second alternative embodiment lacks side support brackets 16 and first upright cushions 20. This defines a convertible furniture piece 200 resembling an armless chair. It should be appreciated, however, that an apparatus having first upright cushions 20 is intended to be within the scope of the present invention. Such an apparatus would resemble an arm chair. The chair-type convertible furniture piece 200 may be converted into a backless chair by simply removing the back support bracket 18 and second upright cushion 22 from the base 12.

**[0030]** It should be appreciated that while a limited number of configurations have been described regarding the loveseat-type, sofa-type and chair-type convertible furniture pieces, any configuration achieved by similar manipulation of the furniture components is intended to be within the scope of the present invention. It should further be appreciated that a convertible furniture piece 10 in accordance with the present invention may also include any number of back support brackets 18, second upright cushions 22, and seat cushions 14. Lastly, it should be appreciated that the convertible furniture piece of the present invention may include a base 12 having non-rectangular geometry. Therefore, a

convertible furniture piece having an L-shaped, U-shaped or any other shaped base 12 is intended to be within the scope of the present invention.

**[0031]** The description of the invention is merely exemplary in nature and, thus, variations that do not depart from the gist of the invention are intended to be within the scope of the invention. Such variations are not to be regarded as a departure from the spirit and scope of the invention.